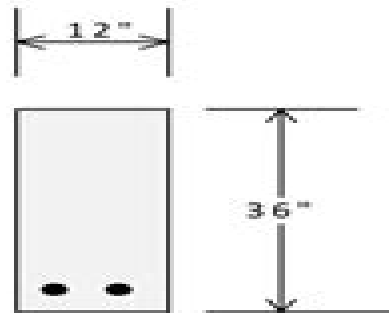


4.2 Compare the cracking moment based on the gross section properties and the transformed section properties with 2-No. 10 (No. 32) bars in Figure P4.1b based on a concrete tensile capacity of $7.5\sqrt{f'_c}$.



$$f'_c := 5000 \text{ psi} \quad E_c := 57000 \sqrt{f'_c \text{ psi}} = 4.031 \times 10^6 \text{ psi}$$

$$E_s := 29000000 \text{ psi}$$

$$b := 12 \text{ in} \quad h := 36 \text{ in}$$

$$I_g := \frac{b \cdot h^3}{12} = 46656 \text{ in}^4$$

$$M_{cr} := \frac{7.5 \sqrt{f'_c \text{ psi}} \cdot I_g}{\frac{h}{2}} = 1375 \text{ in-kip}$$

■ Reinforcement details

Calculate transformed section properties

$$n := \frac{E_s}{E_c} = 7.2 \quad A_s := 2 \cdot A_{s10} = 2.54 \text{ in}^2 \quad n \cdot A_s = 18.3 \text{ in}^2 \quad y_s := 2.5 \text{ in}$$

$$y_b := \frac{\frac{b \cdot h^2}{2} + n \cdot A_s \cdot y_s}{b \cdot h + n \cdot A_s} = 17.37 \text{ in}$$

$$I_g := \frac{b \cdot h^3}{12} + b \cdot h \cdot \left(\frac{h}{2} - y_b \right)^2 + n \cdot A_s \cdot (y_b - y_s)^2 = 50869 \text{ in}^4$$

$$M_{crt} := \frac{7.5 \sqrt{f'_c \text{ psi}} \cdot I_g}{y_b} = 1553 \text{ in-kip}$$

$$\frac{M_{crt}}{M_{cr}} = 1.13$$

$$\frac{A_s}{b \cdot h} = 0.0059$$

Comment:

Including 0.6% reinforcement increased the cracking moment by 13%

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**Tarek Sobh, Khaled Elleithy, Ausif
Mahmood, Mohammad A. Karim**



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Oculoplasty Ruchi Goel, 2024-03-13 Oculoplasty or ophthalmic plastic surgery is performed around the eyes to correct a medical problem and sometimes also for cosmetic reasons. It is one of the most commonly performed procedures around the eyes and has been proven to help fix many eye-related problems. It is commonly performed to correct problems like eyelid malposition problems with the orbit of the eye, tear drainage problems, eye cancer, and problems with the eyebrows. Centre for Sight. This book is a comprehensive guide to oculoplastic procedures for trainee and practising ophthalmic surgeons. Divided into seven sections, the text covers orbit, trauma, lid, lacrimal system, tumours, histopathology, and instruments and suture materials. Each topic is presented in a step-by-step approach describing anatomy, physiology, examination techniques, and surgical techniques. The second edition has been fully revised and updated to provide the latest advances and techniques in the field. New topics have been added to this edition, including orbital trauma, mucormycosis, endoscopy, instruments, and complicated ptosis. The book is highly illustrated with clinical images, tables, and flowcharts. The previous edition 9789352709922 published in 2019.

Kielhofner's Model of Human Occupation Renee Taylor, Patricia Bowyer, Gail Fisher, 2023-04-21 Updated throughout with the latest research, Kielhofner's Model of Human Occupation 6th Edition is the definitive resource on the theory and application of the most widely used model in occupational therapy today. A client-centered approach explores what motivates each individual, how they select occupations, and establish everyday routines, and how environment influences occupational behavior. This revised 6th Edition reflects the current framework and incorporates the most up-to-date MOHO theory, research, and application practices to give users complete preparation for today's client care challenges.

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Books in Print Supplement, 1994 *Advances in Computer, Information, and Systems Sciences, and Engineering* Khaled Elleithy, Tarek Sobh, Ausif Mahmood, Magued Iskander, Mohammad A. Karim, 2007-06-06 The conference proceedings of International Conference on Industrial Electronics Technology not only the reviewing submissions and registration processes but also the actual conference. Conference participants, authors, presenters, and attendees only needed an internet connection and sound available on their computers in order to be able to contribute and participate in this international ground-breaking conference. The on-line structure of this high-quality event allowed academic professionals and

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Section 3 Practical Strategies and Methods
Section 4 Instructional Design Scenarios
Section 5 Curriculum Level Issues
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Theorem Proving in Higher Order Logics Jim Grundy, Malcolm Newey, 1998-09-09 This book constitutes the refereed proceedings of the 11th International Conference on Theorem Proving in Higher Order Logics TPHOLs 98 held in Canberra, Australia, in September/October 1998. The 26 revised full papers presented were carefully reviewed and selected from a total of 52 submissions. Also included are two invited papers. The papers address all current aspects of theorem proving in higher order logics and formal verification and program analysis. Besides the HOL system, the theorem provers Coq, Isabelle, LAMBDA, LEGO, NuPrl, and PVS are discussed.

MicroTas 2004 Thomas Laurell, Johan Nilsson, Jed Harrison, Klavs Jensen, J. P. Kutter, 2007-10-31 The Eighth International Conference on Miniaturized Systems in Chemistry and Life Science MicroTas 2004 is an annual meeting focusing on the research, development, and application of miniaturized technologies and methodologies in chemistry and life science. The conference is celebrating its tenth anniversary after the first workshop at the University of Twente, The Netherlands, in 1994. This research field is rapidly developing and changing towards a domain where core competence areas such as microfluidics, micro and nanotechnology, materials science, chemistry, biology, and medicine are melting together to a truly interdisciplinary meeting place. This volume is the second in a two-volume set, a valuable reference collection to all working in this field.

Machining of Metal Matrix Composites J. Paulo Davim, 2011-09-18 Machining of Metal Matrix Composites provides the fundamentals and recent advances in the study of machining of metal matrix composites (MMCs). Each chapter is written by an international expert in this important field of research. Machining of Metal Matrix Composites gives the reader information on machining of MMCs with a special emphasis on aluminium matrix composites. Chapter 1 provides the mechanics and modelling of chip formation for traditional machining processes. Chapter 2 is dedicated to surface integrity when machining MMCs. Chapter 3 describes the machinability aspects of MMCs. Chapter 4 contains information on traditional machining processes, and Chapter 5 is dedicated to the grinding of MMCs. Chapter 6 describes the

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Toward the Factory of the Future K. Kornwachs,Hans-Jörg Bullinger,Hans-Jürgen Warnecke,2013-12-14 The International Conference on Production Research has a good tradition The first Conference was held in Birmingham 1971 with 61 participants With respect to the decision that the Conference should be held every second year by this time the Conference has been held in the following countries Birmingham 1971 UK Copenhagen 1973 Denmark Amhurst 1975 USA Tokyo 1977 Japan Amsterdam 1979 The Netherlands Novi Sad 1981 Yugoslavia Windsor 1983 Canada Stuttgart 1985 Germany and the next Conference will take place in Cincinnati 1987 USA The number of submitted abstracts and papers was continuously increasing such that the Programme Committee of this actual 8th Conference on Production Research has been forced to introduce a further refereeing procedure Each submitted abstract was presented to at least two referees This resulted not only in a reduction of the number of presented full papers and poster contributions but as the Programme Committee and the Editors hope it led also to a considerable increase in the scientific quality of this 8th International Conference on Production Research The preceding conference in Windsor Canada was dedicated to the topic Production Research as a Means of Productivity Improvement We don't believe that this statement has become untrue in the meanwhile

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